

1 **REMARKS**

2 Claims 1, 13, 14, 21, 37, 69, 71, 81 are amended. Claims 62-63 are
3 cancelled. Claims 1-61 and 64-96 remain in the application for consideration. In
4 view of the following remarks, Applicant respectfully requests reconsideration and
5 allowance of the subject application.

6
7 **Claim Objections**

8 Claims 1 and 82 are objected to for certain informalities. Specifically,
9 claim 1 is objected to because the Office believes that the term “said describing
10 defining” should be “said describing includes defining.” Applicant has reviewed
11 the claim language and submits that there is nothing improper about the format of
12 this claim. More specifically, Applicant’s use of the term “said describing
13 defining” is equivalent to reciting “wherein said act of describing comprises
14 defining...” or “wherein said act of describing is effective to define....”

15 Applicant would prefer to not amend this claim as it appears that the
16 meaning of this claim is clear.

17 Claim 81 is objected to because the word “ascertaining” should be
18 “ascertained.” Applicant agrees with the Office and has amended this claim to
19 correct this oversight. Applicant thanks the Office for the Office’s attention to
20 detail.

21
22 **35 U.S.C. § 112 Rejections**

23 Claims 63, 93 and 94 stand rejected under 35 U.S.C. § 112, second
24 paragraph as being indefinite.

1 **Claim 62 and 63** have been canceled thereby rendering the rejection of
2 claim 63 moot.

3 With respect to **claim 93**, the Office takes the position that the terms “no
4 file group information is provided” and “files of different types” are indefinite.
5 The Office argues that if the files all have different file types, then this would
6 represent file group information. For an example of subject matter covered by this
7 claim, the Office is referred to the Specification, page 31, lines 7-15, which is
8 reproduced below for the convenience of the Office:

9
10 Step 1300 sorts files by file group. Recall that in the illustrated
11 example above, files can be grouped in one of four possible groups:
12 Required, Offline, On Demand and Online Only. A file’s group is
13 determined first by the manifest, and, if it does not provide any group
14 information, then by the highest priority group that it uses, according to
15 checkpoint information in the log. Files in the “Required” set should not be
16 considered because their order is already known. ***If no group information
17 is included about a file, then an assumption is made that the EDF and all
18 DLLs are “Required” files and all other files in the directory are
19 “Offline”.*** (emphasis added).

20
21 Thus, in this example, it is clear that there are situations in which no file
22 group information is provided and an assumption is made that all files of a
23 particular type (in this example, the EDF and DLLs) are of a higher priority than
24 other files of different types (in this example, files that are not EDF and DLLs).
25 Hence, Applicant respectfully submits that there is nothing indefinite about this
claim.

 With respect to **claim 94**, the Office argues that the terminology of this
claim is indefinite. Applicant submits that when this claim is considered in view

1 of its independent claim, it is sufficiently definite. Specifically, claim 91, from
2 which this claim depends, recites as follows:

3
4 91. A method of ordering files for download to a client comprising:
5 sorting multiple files by one or more file groups;
6 sorting the multiple files based on scenario priority of one or more
7 scenarios into which each file can be placed;
8 sorting the multiple files by file usage order within one or more scenarios.

9
10 And claim 94 recites as follows:

11
12 94. The method of claim 91, wherein said sorting by file usage order
13 comprises sorting the files according to the average order in which the files were
14 downloaded within their particular priority or priorities.

15
16 Combining the subject matter of both of these claims into one easily-
17 readable claim provides as follows:

18
19 A method of ordering files for download to a client comprising:
20 sorting multiple files by one or more file groups;
21 sorting the multiple files based on scenario priority of one or more
22 scenarios into which each file can be placed;
23 sorting the multiple files by file usage order within one or more scenarios
24 by sorting the files according to the average order in which the files were
25 downloaded within their particular priority or priorities.

Thus, the “average order” refers to the order in which the files were
downloaded within their particular “priority or priorities” which, in turn, refers to
the scenario priority of scenarios into which each of the files can be placed.

1 For an example from the Specification of subject matter that is covered by
2 this claim, the Office is referred to page 31, line 7 through page 33, line 10, the
3 entirety of which is reproduced below for the Office's convenience:

4
5 Step 1300 sorts files by file group. Recall that in the illustrated
6 example above, files can be grouped in one of four possible groups:
7 Required, Offline, On Demand and Online Only. A file's group is
8 determined first by the manifest, and, if it does not provide any group
9 information, then by the highest priority group that it uses, according to
10 checkpoint information in the log. Files in the "Required" set should not be
11 considered because their order is already known. If no group information is
12 included about a file, then an assumption is made that the EDF and all
13 DLLs are "Required" files and all other files in the directory are "Offline".

14 Consider, for example, the following initial file usage information
15 for three different scenarios:

16 Scenario 1 file usage: 1) FileA.gif, 2)FileB.xml, 3)FileE.dll

17 Scenario 2 file usage: 1) FileC.xml, 2) FileA.gif

18 Scenario 3 file usage: 1)File D.js, 2)FileA.gif

19 Scenario 1 = priority 80

20 Scenario 2 = priority 80

21 Scenario 3 = priority 40

22 In this example, there are three scenarios that have files associated
23 with them. Each of the scenarios has a priority with which it is associated.
24 The files are first sorted by group (step 1300). Recall that in this ordering
25 heuristic, DLLs are "Required" and all other files are considered "Offline".
This provides the following sorted files:

Required files

FileE

Offline files

FileA, FileB, FileC, File D

Step 1302 sorts files based on scenario priorities (from highest to lowest). Higher priority files are ordered so that they are downloaded first. This step provides the following sorted files:

Required files

FileE

Offline files

Priority 80 group: files used by Scenarios 1 & 2 = File A, File B, and File C

Priority 40 group: files used by Scenario 3 (that are not already listed) = File D.

Step 1304 then sorts the files by file usage order within a scenario run. For each priority grouping with more than one file, the files are sorted according to the average order in which they were downloaded within scenarios of their labeled priority. Scenarios with a smaller average usage order will be downloaded earlier. Ties are broken based on the order in which the scenarios appear in the input file. As an example, consider the following:

File A: average order = (Scenario 1 order + Scenario 2 order)/2 = (1+2)/2 = 1.5.

File B: average order = (Scenario 1 order)/1 = (2)/1 = 2.

File C: average order = (Scenario 2 order)/1 = (1)/1 = 1.

Here, file A got used first by scenario 1 and second by scenario 2 for an average of 1.5, and so on. File C has the smallest order number so, of the Offline files, it is sent first. The final file order is shown below:

Required files

FileE

Offline files

FileC, FileA, FileB, File D

In view of the discussion above and the excerpt from the Specification, Applicant respectfully submits that there is nothing indefinite with respect to claim 94.

1 **35 U.S.C. §§ 102 and 103 Rejections**

2 Claim 82 stands rejected under 35 U.S.C. § 102(e) as being anticipated by
3 U.S. Patent No. 5,999,740 to Rowley.

4 Claims 1-5, 8-20, 37-39, 42-46, 55, 57, 61, 62, and 71-76 stand rejected
5 under 35 U.S.C. § 103(a) as being obvious over Rowley in view of U.S. Patent
6 No. 6,219,698 to Iannucci.

7 Claims 6, 40, 41 and 54 stand rejected under 35 U.S.C. § 103(a) as being
8 obvious over Rowley in view of Iannucci and U.S. Patent No. 4,641,274 to
9 Swank.

10 Claim 7 stands rejected under 35 U.S.C. § 103(a) as being obvious over
11 Rowley in view of Iannucci and U.S. Patent No. 5,195,183 to Miller.

12 Claims 21-24, 27, 28, 32, 36, 47, 49-51, 53, and 54 stand rejected under 35
13 U.S.C. § 103(a) as being obvious over Rowley in view Swank.

14 Claims 25 and 29-31 stand rejected under 35 U.S.C. § 103(a) as being
15 obvious over Rowley in view of Swank and U.S. Patent No. 5,845,090 to Collins
16 III.

17 Claim 26 stands rejected under 35 U.S.C. § 103(a) as being obvious over
18 Rowley in view of Swank and U.S. Patent No. 6,615,276 to Mastrianni.

19 Claims 33-35 stand rejected under 35 U.S.C. § 103(a) as being obvious
20 over Rowley in view of Swank and U.S. Patent No. 5,835,777 to Staelin.

21 Claims 48 and 52 stand rejected under 35 U.S.C. § 103(a) as being obvious
22 over Rowley in view of Swank and Iannucci.

23 Claims 58 and 59 stand rejected under 35 U.S.C. § 103(a) as being obvious
24 over Rowley in view of Iannucci and an article entitled "The Component Object
25 Model: A Technical Overview" by Williams (hereinafter "Williams").

1 Claims 60 stands rejected under 35 U.S.C. § 103(a) as being obvious over
2 Rowley in view of Iannucci and Collins III.

3 Claims 64, 65, 67 and 68 stand rejected under 35 U.S.C. § 103(a) as being
4 obvious over Collins III in view of U.S. Patent No. 5,859,973 to Carpenter.

5 Claim 66 stands rejected under 35 U.S.C. § 103(a) as being obvious over
6 Collins III in view of Carpenter and U.S. Patent No. 5,826,265 to Van Huben.

7 Claim 69 stands rejected under 35 U.S.C. § 103(a) as being obvious over
8 U.S. Patent No. 6,282,711 to Halpern in view of U.S. Patent No. 5,721,824 to
9 Taylor.

10 Claim 70 stands rejected under 35 U.S.C. § 103(a) as being obvious over
11 Halpern in view of Taylor and Rowley.

12 Claims 77-80 stand rejected under 35 U.S.C. § 103(a) as being obvious
13 over Rowley in view of Iannucci and U.S. Patent No. 4,910,663 to Bailey.

14 Claim 81 stands rejected under 35 U.S.C. § 103(a) as being obvious over
15 Rowley in view of Iannucci and U.S. Patent No. 5,761,408 to Kolawa.

16 Claims 83 and 85 stand rejected under 35 U.S.C. § 103(a) as being obvious
17 over Rowley.

18 Claim 84 stands rejected under 35 U.S.C. § 103(a) as being obvious over
19 Rowley in view of Bailey.

20 Claims 86-90 stand rejected under 35 U.S.C. § 103(a) as being obvious
21 over Bailey in view of Kolawa and Collins III.

22 Claims 91, 92, 95 and 96 stand rejected under 35 U.S.C. § 103(a) as being
23 obvious over Rowley in view of Collins III and Bailey.

24 Before discussing the substance of the Office's rejections, the following
25 discussion is provided to assist the Office in appreciating the patentable

1 distinctions between Applicant's claimed subject matter and the various references
2 cited by the Office.

3 4 **The Rowley Reference**

5 Rowley's is perhaps best appreciated with respect to FIG. 1, which shows a
6 computer network comprising a number of client computers 101 and a number of
7 server computers 102 interconnected by a network 103.

8 Each file server 102 stores a number of application files 104, forming a
9 number of software applications. Normally, each application consists of several
10 application files. The application files are stored in compressed form, using any
11 standard data compression technique.

12 Conveniently, the server has a number of application directories, one for
13 each application. Each of these directories has a number of sub-directories, which
14 hold the new or amended application files for different versions of the application.
15 Typically, one of these versions is an installer version of the application, while the
16 other versions are non-installers. An installer is an executable program which,
17 when run on a client machine, sets up the correct environment for the application.
18 Normally, the first release of an application is an installer, and subsequent releases
19 are non-installers.

20 Each file server also stores a number of manifest files 105, one for each
21 version of each application stored on the server. These manifest files are stored in
22 the relevant sub-directories, and each has a name constructed from the name and
23 release number of the application to which it relates. Each manifest file contains a
24 list of the application files that make up the particular version of the application.
25 For each application file, it contains the following parameters:

1 The filename of the application file.

2 The version number of the application file.

3 The target directory into which the application file should be
4 installed.

- 5 • Date and time of issue.
- 6 • File size and compressed file size.
- 7 • An action parameter which indicates whether the file is to be
8 installed, to be deleted, or to be executed on download.
- 9 • A flag which indicates access permissions of the file, e.g. read only.
- 10 • A cyclic redundancy checksum (CRC).

11 FIGS. 3A and 3B show the operation of an update program 110 (Fig. 1).
12 Referring to FIG. 3A, the update program first contacts one of the servers 102
13 (Step 301), by way of the network 103, to obtain the live release file from that
14 server. The update program then compares this release file with its locally held
15 registration file 109 (Step 302), to identify which of the currently installed
16 applications have more recent versions available. It also identifies any new
17 application installers in the release file for applications that are not installed
18 locally on the client.

19 The update program then displays a screen, as shown in FIG. 9, which
20 allows the user to select either an "Updates" option or a "New Release" option. If
21 the user selects the "Updates" option, the update program proceeds to step 303 in
22 FIG. 3A. Alternatively, if the user selects the "New Release" option, the update
23 program proceeds to step 310 in FIG. 3B.

24 If the user selects the "Updates" option (Step 303), a list of the titles and
25 versions of currently installed applications is displayed, as shown in FIG. 9. The
26 display indicates which, if any, of the applications have more recent versions
27 available. The user may select from this list one or more (or all) of the

1 applications for which a more recent version is available. Selection of an
2 application will automatically cause any dependent applications to be selected.

3 If there is a more recent version available of the update program itself, this
4 is automatically selected. Hence, every time the update program runs it will update
5 itself if necessary.

6 If the user selects the "OK" button on this screen, the program proceeds to
7 Step 304 below. Alternatively, the user may simply exit from the program without
8 performing any updates by selecting the "Cancel" button. Assuming the "OK"
9 button was selected in step 303, the update program contacts the server 102 to
10 obtain the manifest file for the first (or only) of the selected applications (Step
11 304). The update program then determines differences between files installed on
12 the client computer and those listed in the manifest file (Step 305). For each
13 application file listed in the manifest file, a check is made to determine whether
14 the specified file is already present in the specified directory in the client by using
15 CRC checks. If not, the program contacts the server 102, to retrieve the required
16 application file. The retrieved file is expanded, and then checked for file-transfer
17 corruption, using the CRC checksum. All the application files are read into a
18 temporary directory on the client computer. Thus, the update program does not
19 fetch any application file if the required version of that file is already installed in
20 the required directory, thereby eliminating unnecessary traffic over the network.

21 When all the files listed in the manifest file have been correctly retrieved
22 (Step 306), the installation actions are implemented as follows. Any files marked
23 for deletion are deleted from the client computer, files marked for execution are
24 executed and files marked for installation are installed into the specified
25 directories in the client, provided the file version is more advanced than that of the

1 existing file. Hence then any existing files with the same names in the directories
2 will be overwritten.

3 If, on the other hand, some of the file transfers failed, none of the files are
4 installed. Instead, a message is displayed, giving the user the option of either
5 canceling the update, or making another attempt to access the files.

6 If all the required applications have now been updated (Step 307), the
7 update program proceeds to Step 308. Otherwise it returns to Step 304 above to
8 get the manifest file for the next required application to be updated.

9 10 **The Iannucci Reference**

11 Iannucci discloses a system for sending and receiving automatic message
12 notification and remote client configuration. As shown in Iannucci's Fig. 1, a
13 server 100, a client 110 and at least one message server 120 communicate with
14 each other via a communication network 130.

15 The server 100 stores a software application 159 and a database 155. The
16 database 155 has a current version number 158 of a particular software
17 application, which will be called "application A" and which may be stored as part
18 of the programming 159, a list of clients 157, and information 160 relating to the
19 availability of a message including persistent state information.

20 The client 110 includes a processor 170 having an elapsed time counter
21 171, a display 180 and a memory 185. The memory 185 stores a database 190 and
22 software 187, including the version of software "application A" which presently
23 operates on the processor 170. The client 110 communicates with the server 100
24 via the communications network 130 and is capable of directing the display of
25 web pages 195 and 197 on the display 180.

1 An accept/reject button 191, a message waiting indicator 192, and a
2 configuration or upgrade message 193 and client state change directives 198 are
3 shown displayed within the web page 195 on the display 180. The button 191,
4 configuration message 193, and the directives 198 are all part of the configuration
5 information 196 which appears within web page 195. The message 196 appears in
6 a separate web page 197.

7 The database 190 contains server Universal Resource Locators (URL's)
8 including the URL 210 associated with the server 100, a first persistent state value
9 A 230 and a second persistent state value B 240, message URL's including the
10 URL 250 associated with the message server 120 and a frequency time 260. If
11 available, the frequency time is a user selected minimum time period between
12 upgrade availability notifications.

13 Referring additionally now to FIG. 2, in response to a client processor 170
14 initializing the "application A" software stored on memory 185, the server 100, via
15 the communication network 130, automatically receives a signal in step 300 which
16 represents status information from the client 110, in accordance with programmed
17 instructions included in the software 187 stored on the client memory 185. Among
18 other information, the status information includes a client version number of the
19 software "application A" stored on memory 185. Software "application A" may
20 have been originally downloaded to the client 110 from server 100, or from a
21 different network server. Alternatively, software "application A" could have been
22 loaded directly to the client 110 from a floppy disk or other physical storage
23 medium.

24 The server 100, in step 320, compares the client version number of software
25 "application A" stored in client 110 against a current version number 158 of the

1 software "application A" stored in the memory 155 of server 100 and determines
2 whether the current version number 158 is greater than the client version number.
3 If so, the server processor 140, in accordance with programmed instructions which
4 form part of the software 159 stored on server memory 105, generates
5 configuration information 196 in step 330. The configuration information 196
6 includes a configuration message 193 which contains information pertaining to
7 features of the available upgrade of the software "application A" to current version
8 number 158, and an offer to download the software application A upgrade. The
9 configuration information 196 also includes, an accept/reject button 191. The
10 configuration information 196 may further include client persistent state change
11 directives 198. The server processor 140, in accordance with its programmed
12 instructions, also directs the transmission of the configuration information 196 via
13 the network 130 to the client 110 in step 330. The server processor 140, in step
14 350, additionally determines whether the offer is accepted or rejected through the
15 receipt of a new request from client 110 to download the upgrade. If the offer is
16 accepted the server 100 first downloads a web page containing a link to the
17 software upgrade. Responsive to the user clicking on the link, the server 100
18 downloads the new version of the software to client 110 in step 360.

19 The configuration information 196, including the configuration message
20 193 and the accept/reject button 191 are displayed on the client display 180 in step
21 460 of FIG. 3. By clicking on the displayed accept/reject button 191 to accept the
22 upgrade of software "application A", a signal is generated and communicated from
23 the client processor 170 to the server processor 140 via the network 130,
24 responsive to which the server processor 140, in step 360, directs the downloading
25 of the web page containing the link to the upgrade to the client 110. If accepted,

1 the upgrade is downloaded and stored by processor 170 on client memory 185. By
2 clicking on the accept/reject button 191 to accept or reject the upgrade, the
3 configuration information 196 will be eliminated from the display 180 as indicated
4 in step 370. Until the button 191 is clicked on, the configuration information 196
5 will continue to be displayed during the current session and will be redisplayed
6 during each future session, subject to the selected minimum time periods between
7 upgrade notification. If the upgrade is accepted or rejected, the previously
8 displayed configuration information 196 will not be displayed during future
9 sessions.

10
11 **Claims Rejected under § 102 over Rowley and Related Dependent**
12 **Claims Rejected Under § 103**

13 **Claim 82** recites a method for creating a package manifest comprising:

- 14
- 15 • receiving information pertaining to one or more extension directories
16 that contain files that comprise a software extension that is to be
17 incorporated into a software application program to extend the
18 application program;
 - 19 • receiving, if any, information pertaining to file groups or load
20 dependencies;
 - 21 • receiving, if any, information pertaining to file usage statistics; and
 - 22 • generating a package manifest based on the received information.
- 23

24 In making out the rejection of this claim, the Office argues that Rowley
25 anticipates this claim's subject matter. Specifically, the Office cites to Rowley's
column 4, lines 57-61 and Fig. 8 as disclosing subject matter that anticipates this
claim. Applicant respectfully disagrees and traverses the rejection.

For example, the Office argues that Rowley discloses receiving information
that pertains to file usage statistics and cites to Fig. 8 and argues that Rowley's

1 flag indicating permissions of the file is a “file usage statistic.” Applicant
2 respectfully disagrees. Rowley’s flag is provided to mark a particular file as a
3 “read only” file. Applicant submits that there is nothing *statistical* about a flag
4 that marks a file as a “read only” file as the term “file usage statistic” is used in the
5 Specification. More specifically, the Specification describes that file usage
6 statistics are generated from scenario runs which produce a parameter that enables
7 the file download priority to be determined based on the scenario runs. A scenario
8 is a script of tasks that the average user typically follows when using a product
9 during a particular portion of product use. For example, one scenario might
10 pertain to the tasks involved in sending an email message (i.e. click “new mail”
11 button, type in “TO” well, type in “Subject” well, etc.). In the described
12 embodiment, file usage statistics from scenario runs are collected from running
13 logs on various scenarios. The different scenarios are directed to ensuring, with
14 some degree of probabilistic support, that the file download order reflects, in some
15 way, the files that will likely be used by the user first.

16 Hence, it should be quite clear that Rowley’s “read only” flag neither
17 discloses nor suggests file usage statistics as that term is utilized in the claim and
18 the Specification. Accordingly, for at least this reason, this claim is allowable.

19 **Claims 83-85** depend from claim 82 and are allowable as depending from
20 an allowable base claim. These claims are also allowable for their own recited
21 features which, in combination with those recited in claim 82, are neither disclosed
22 nor suggested in the references of record, either singly or in combination with one
23 another. In addition, given the allowability of claim 82, the rejection of claim 84
24 over the combination with Bailey is not seen to add anything of significance.
25

The § 103 Standard

To establish a prima facie case of obviousness, three basic criteria *must* be met. First, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine reference teachings. *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992); *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988). Second, there must be a reasonable expectation of success. *In re Merck & Co., Inc.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). Finally, the prior art reference (or references when combined) must teach or suggest all the claim limitations. *In re Royka*, 490 F.2d 981, 180 USPQ 580 (CCPA 1974).

Hence, when patentability turns on the question of obviousness, the search for and analysis of the prior art includes evidence relevant to the finding of whether there is a teaching, motivation, or suggestion to select and combine the references relied on as evidence of obviousness. See, e.g., *McGinley v. Franklin Sports, Inc.*, 262 F.3d 1339, 1351-52, 60 USPQ2d 1001, 1008 (Fed. Cir. 2001) ("the central question is whether there is reason to combine [the] references," a question of fact drawing on the Graham factors).

"The factual inquiry whether to combine references must be thorough and searching." *Id.* It must be based on objective evidence of record. This precedent has been reinforced in myriad decisions, and cannot be dispensed with. See, e.g., *Brown & Williamson Tobacco Corp. v. Philip Morris Inc.*, 229 F.3d 1120, 1124-25, 56 USPQ2d 1456, 1459 (Fed. Cir. 2000) ("a showing of a suggestion, teaching, or motivation to combine the prior art references is an 'essential component of an obviousness holding'" (quoting *C.R. Bard, Inc., v. M3 Systems*,

1 *Inc.*, 157 F.3d 1340, 1352, 48 USPQ2d 1225, 1232 (Fed. Cir. 1998)); *In re*
2 *Dembiczak*, 175 F.3d 994, 999, 50 USPQ2d 1614, 1617 (Fed. Cir. 1999) ("Our
3 case law makes clear that the best defense against the subtle but powerful
4 attraction of a hindsight-based obviousness analysis is rigorous application of the
5 requirement for a showing of the teaching or motivation to combine prior art
6 references."); *In re Dance*, 160 F.3d 1339, 1343, 48 USPQ2d 1635, 1637 (Fed.
7 Cir. 1998) (there must be some motivation, suggestion, or teaching of the
8 desirability of making the specific combination that was made by the applicant); *In*
9 *re Fine*, 837 F.2d 1071, 1075, 5 USPQ2d 1596, 1600 (Fed. Cir. 1988) ("teachings
10 of references can be combined only if there is some suggestion or incentive to do
11 so.") (emphasis in original) (quoting *ACS Hosp. Sys., Inc. v. Montefiore Hosp.*,
12 732 F.2d 1572, 1577, 221 USPQ 929, 933 (Fed. Cir. 1984)).

13 The need for specificity pervades this authority. See, e.g., *In re Kotzab*, 217
14 F.3d 1365, 1371, 55 USPQ2d 1313, 1317 (Fed. Cir. 2000) ("particular findings
15 must be made as to the reason the skilled artisan, with no knowledge of the
16 claimed invention, would have selected these components for combination in the
17 manner claimed").

18
19 **Claims Rejected Over the Combination that Includes at least Rowley**
20 **and Iannucci**

21 **Claim 1** has been amended and recites a method for delivering software via
22 a network comprising [added language appears in bold italics]:

- 23 • describing one or more software extensions using a hierarchical
24 language, the extensions being configured for incorporation on a
25 client, said describing defining one or more manifests containing at
least one list of files comprising an extension; and

1 delivering the one or more manifests to the client via the network,
2 the one or more manifests being configured for use in downloading
3 the software extensions via the network, *at least some of the*
4 *extensions being downloadable by streaming extension files to the*
5 *client in a manner that enables a user to begin to interact with the*
6 *extension sooner than if the user had to wait for the entire*
7 *extension to load.*

8 In making out the rejection of this claim, the Office argues that Rowley
9 teaches the recited acts of describing and delivering, except for describing the
10 extensions using a hierarchical language. The Office then relies on Iannucci and
11 argues that it teaches a manifest file in the form of a web page which is sent to the
12 client for use in downloading a software extension. Based on this, the Office
13 argues that this claim would be obvious in view of the combination of Rowley and
14 Iannucci.

15 Applicant respectfully disagrees. The excerpt in Iannucci cited by the
16 Office (column 5, lines 47-51) simply describes the situation where, after a user
17 has accepted an offer to download software, the server downloads a web page that
18 has a link that the user can click on to download a new version of the software.
19 Applicant submits that Iannucci's web page and link are not a manifest as that
20 term is utilized in the claim and defined in the Specification.

21 Nonetheless, Applicant has amended this claim to recite that at least some
22 of the extensions are downloadable by streaming extension files to the client in a
23 manner that enables a user to begin to interact with the extension sooner than if the
24 user had to wait for the entire extension to load. Support for this amendment can
25 be found in the Specification on page 17, line 15 through page 18, line 6 which is
reproduced below for the convenience of the Office:

1 It is also desirable to give the end user a Web-like experience. To do
2 this, extensions are loaded in a manner that feels to a user more like they
3 are loading a web page, rather than traditional software packages where the
4 user has to wait until the entire package is loaded before they can interact
5 with it. In the described embodiment, users are given a web-like
6 experience by streaming the extension files down to the client so that a user
7 can begin to interact with an application program much sooner than if they
8 had to wait for the entire software application program to load. For
9 example, if there are user interface (UI) image files streaming down, the
10 user can see the UI as the files stream in. Consider, for example, the single
11 application program having the multiple different functionalities that is
12 described in the patent application incorporated by reference above. A user
13 might browse to an email functionality and download the files that are
14 necessary to interact with the email functionality. Files that are associated
15 with another different functionality would then be downloaded after the
16 files associated with the email functionality. In this way, the user can begin
17 to operate within a particular functionality without having to wait for all of
18 the files associated with all of the other functionalities.

12 Nowhere does Rowley or Iannucci appear to disclose or suggest any such
13 subject matter. Rather, it appears that each reference teaches directly away from
14 any such subject matter. See, e.g. Rowley, column 6, lines 13-21 (“When all the
15 files listed in the manifest file have been correctly retrieved, the installation
16 actions are implemented as follows. Any files marked for deletion are deleted
17 from the client computer, files marked for execution are executed and files marked
18 for installation are installed into the specified directories in the client, provided the
19 file version is more advanced than that of the existing file. Hence then any existing
20 files with the same names in the directories will be overwritten.”). See also,
21 Iannucci, column 5, lines 52-63 (“The configuration information 196, including
22 the configuration message 193 and the accept/reject button 191 are displayed on
23 the client display 180 in step 460 of FIG. 3. By clicking on the displayed
24 accept/reject button 191 to accept the upgrade of software “application A”, a
25

1 signal is generated and communicated from the client processor 170 to the server
2 processor 140 via the network 130, responsive to which the server processor 140,
3 in step 360, directs the downloading of the web page containing the link to the
4 upgrade to the client 110. *If accepted, the upgrade is downloaded and stored by*
5 *processor 170 on client memory 185.)* (emphasis added).

6 Accordingly, for at least this reason, claim 1 is allowable.

7 **Claims 2-12** depend from claim 1 and are allowable as depending from an
8 allowable base claim. These claims are also allowable for their own recited
9 features which, in combination with those recited in claim 1, are neither disclosed
10 nor suggested in the references of record, either singly or in combination with one
11 another. In addition, given the allowability of claim 1 over the combination of
12 Rowley and Iannucci, the rejections of claim 6 over the further combination with
13 Swank, and of claim 7 over the further combination with Miller are not seen to add
14 anything of significance.

15 **Claim 13** recites one or more computer-readable media comprising
16 computer-readable instructions thereon which, when executed by a computer,
17 cause the computer to [added language appears in bold italics]:

- 18
- 19 • describe one or more software extensions using extensible markup
20 language (XML), the extensions being configured for incorporation
21 on a client, said describing defining a manifest containing at least
22 one list of files comprising an extension, the manifest being
23 configured to assist in one or more of the following: organizing
24 delivery of individual files listed in the manifest, validating
25 individual files listed in the manifest, and updating individual files
listed in the manifest; and
 - deliver the manifest to the client via the network, *at least some of
the extensions being downloadable by streaming extension files to
the client in a manner that enables a user to begin to interact with*

1 *the extension sooner than if the user had to wait for the entire*
2 *extension to load.*

3 In making out the rejection of this claim, the Office argues that the
4 combination of Rowley and Iannucci render the subject matter of this claim
5 obvious. Applicant respectfully disagrees with the Office's combination and
6 rationale. Nonetheless, Applicant has amended this claim to recite that at least
7 some of the extensions are downloadable by streaming extension files to the client
8 in a manner that enables a user to begin to interact with the extension sooner than
9 if the user had to wait for the entire extension to load.

10 Support for this amendment can be found in the Specification as noted
11 above. As neither Rowley nor Iannucci disclose or suggest any such subject
12 matter, this claim is allowable.

13 **Claim 14** has been amended and recites a method for receiving software
14 via a network comprising [added language appears in bold italics]:

- 15
- 16 • receiving a manifest that contains at least one list of files comprising
17 a software extension that is to be downloaded via a network and
18 incorporated on a client, the manifest being defined in extensible
19 markup language (XML), the manifest being configured to assist in:
 - 20 ○ organizing delivery of the files,
 - 21 ○ validating individual files listed in the manifest, and
 - 22 ○ updating individual files listed in the manifest; and
 - 23 ○ downloading files from the list of files contained in the
24 manifest;
 - 25 • *wherein the extension is downloadable by streaming extension files
to the client in a manner that enables a user to begin to interact
with the extension sooner than if the user had to wait for the entire
extension to load.*

1 In making out the rejection of this claim, the Office makes the same argues
2 that it made with respect to claim 13 above. Applicant disagrees with the Office's
3 rejection and rationale. Nonetheless, Applicant has amended this claim to recite
4 that the extension is downloadable by streaming extension files to the client in a
5 manner that enables a user to begin to interact with the extension sooner than if the
6 user had to wait for the entire extension to load.

7 As neither Rowley nor Iannucci disclose or suggest any such subject
8 matter, this claim is allowable.

9 **Claims 15-20** depend from claim 14 and are allowable as depending from
10 an allowable base claim. These claims are also allowable for their own recited
11 features which, in combination with those recited in claim 14, are neither disclosed
12 nor suggested in the references of record, either singly or in combination with one
13 another.

14 **Claim 37** has been amended and recites a method of providing software via
15 a network comprising [added language appears in bold italics]:

- 16 • describing one or more software extensions using one or more
17 extensible markup language (XML) files, the extensions being
18 configured for incorporation in a software program executing on a
19 client, individual XML files providing individual manifests that
20 contain a list of files that comprise an extension; and
- 21 • storing the XML files in a Web-accessible location;
- 22 • *wherein at least some of the extensions are downloadable by
23 streaming extension files to the client in a manner that enables a
24 user to begin to interact with the extension sooner than if the user
25 had to wait for the entire extension to load.*

24 In making out the rejection of this claim, the Office argues that the
25 combination of Rowley and Iannucci renders the subject matter of this claim

1 obvious. Applicant respectfully disagrees with the Office's combination and
2 rationale. Nonetheless, Applicant has amended this claim to recite that at least
3 some of the extensions are downloadable by streaming extension files to the client
4 in a manner that enables a user to begin to interact with the extension sooner than
5 if the user had to wait for the entire extension to load.

6 Support for this amendment can be found in the Specification as noted
7 above. As neither Rowley nor Iannucci disclose or suggest any such subject
8 matter, this claim is allowable.

9 **Claims 38-46** depend from claim 37 and are allowable as depending from
10 an allowable base claim. These claims are also allowable for their own recited
11 features which, in combination with those recited in claim 37, are neither disclosed
12 nor suggested in the references of record, either singly or in combination with one
13 another. Additionally, given the allowability of claim 37, the rejections of claims
14 40 and 41 over the further combination with Swank is not seen to add anything of
15 significance.

16 **Claim 55** recites a data structure embodied on a computer-readable
17 medium comprising:

- 18
- 19 • one or more first tags indicative of associated file groups associated
20 with an Internet-downloadable software extension that can extend an
21 application program executing on a client; and
 - 22 • one or more second tags indicative of specific files that comprise the
23 software extension.

24 In making out the rejection of this claim, the Office argues that Rowley
25 teaches a manifest file which stores a list of files utilized in a software extension
and further teaches one or more files groups associated with the files. The Office

1 admits that Rowley does not teach that the individual files and file groups
2 comprise tags that indicate individual files and file groups. The Office then relies
3 on Iannucci and argues that it teaches a manifest in the form of a web page, which
4 is sent to the client for use in downloading a software extension. The Office then
5 reasons that web pages are designed using HTML—a tag-based language—and
6 that using tags to separate fields in a web page is an inherent aspect of HTML.
7 Based on this, the Office argues that the subject matter of this claim is obvious in
8 view of Rowley and Iannucci since the combination allows the manifest to take
9 the form of a web page.

10 Applicant respectfully disagrees. First, the portion of Iannucci cited by the
11 Office in support of this rejection pertains simply to a web page with a clickable
12 link that enables a user to click on the link and subsequently download software.
13 Second, and perhaps more importantly, there is no disclosure in either reference to
14 provide a data structure that associates one or more first tags with *file groups* and
15 one or more second tags with *specific files*. Rather, Rowley's manifest appears to
16 simply list application files that make up a particular version of an application.
17 More specifically, the parameters that are included in Rowley's manifest include a
18 file name of an application file, a version number, a target directory, a date and
19 time of issue, and additional information—none of which is disclosed to comprise
20 file groups. For at least these two reasons, the Office has failed to establish a
21 *prima facie* case of obviousness and this claim is allowable.

22 **Claims 56-61** depend from claim 55 and are allowable as depending from
23 an allowable base claim. These claims are also allowable for their own recited
24 features which, in combination with those recited in claim 55, are neither disclosed
25 nor suggested in the references of record, either singly or in combination with one

1 another. In addition, given the allowability of claim 55, the rejections of claims
2 58-59 over Williams, and of claim 60 over Collins, is not seen to add anything of
3 significance.

4 **Claim 71** has been amended and recites an automated software tool
5 comprising a package manifest creation tool configured to [added language
6 appears in bold italics]:

- 7
- 8 • receive one or more input parameters pertaining to a package
manifest that is to describe a software extension that is configured to
9 extend a software application executing on a client; and
- 10 • generate a package manifest that describes the extension, the
package manifest being generated using a hierarchical language;
- 11 • *wherein the extension is downloadable by streaming extension files
12 to the client in a manner that enables a user to begin to interact
with the extension sooner than if the user had to wait for the entire
13 extension to load.*

14 In making out the rejection of this claim, the Office argues that Rowley
15 teaches a manifest editor (Fig. 8) as claimed, but fails to teach that the manifest is
16 described using a hierarchical language. The Office then relies on Iannucci to
17 argue that the subject matter of this claim is obvious. Applicant respectfully
18 disagrees. Nonetheless, Applicant has amended this claim to recite that the
19 extension is downloadable by streaming extension files to the client in a manner
20 that enables a user to begin to interact with the extension sooner than if the user
21 had to wait for the entire extension to load. Support for this amendment can be
22 found in the Specification as noted above. Neither Rowley nor Iannucci disclose
23 or suggest any such subject matter. Accordingly, for at least this reason, this claim
24 is allowable.
25

1 **Claims 72-81** depend from claim 71 and are allowable as depending from
2 an allowable base claim. These claims are also allowable for their own recited
3 features which, in combination with those recited in claim 71, are neither disclosed
4 nor suggested in the references of record, either singly or in combination with one
5 another. In addition, given the allowability of claim 71, the rejections of claims 77
6 and 81 over the references to Bailey and Kolawa respectively, are not seen to add
7 anything of significance.

8
9 **Claims Rejected Over the Combination that Includes at least Rowley
and Swank**

10 **Claim 21** has been amended and recites a data structure comprising [added
11 language appears in bold italics]:

- 12
13 • a list of one or more files that are utilized in a software extension
14 that is configured to extend a software application executing on a
15 client;
- 16 • one or more hashes each of which being associated with a particular
17 listed file; and
- 18 • one or more file groups, individual files being associated with
19 individual file groups, the file groups determining when particular
20 files of the extension get downloaded to the client;
- 21 • *the data structure being configured to assist in delivering software
22 extensions via the Internet.*

23 In making out the rejection of this claim, the Office argues that Rowley
24 teaches a manifest file that stores a list of files and further teaches one or more file
25 groups associated with files that determine what particular files of the extension
get downloaded to the client, citing to column 2, lines 25-28. Applicant
respectfully points out that the Office has misread this claim. Specifically, the

claim recites that the one or more file groups determine *when* particular files of the extension get downloaded.

The Office is respectfully referred to Applicant's Specification, starting on page 19, line 15 where an exemplary implementation of a file group is described. The discussion appearing in this portion of the Specification is provided below for the Office's convenience:

All files in an extension can be labeled according to a number of predefined file groups. The file group of a particular file determines *when the particular file gets downloaded*, where it is stored on the client, and how it gets packaged. In the described embodiment, four predefined file groups are provided and are listed and described in the table immediately below:

Group name	When downloaded	Where stored on the client	Packaging	Content
Required	Downloaded before any other files in the extension.	NetDocs package cache	All required files in an extension are packaged together as a CAB* file.	DLLs included so that a user will not have to wait for a prolonged period of time before clicking on a UI element
Offline	Offline files start getting downloaded as soon as Required are down. Providing the user stays on line long enough, these files will all get downloaded and will later be available for offline use.	NetDocs package cache	File are sent down individually.	Bulk of the UI files.
On demand	Only downloaded when they are requested for the first time.	NetDocs package cache	Files are sent down individually.	To avoid using up disk space on the client, advanced features can be put in this category.
Online only	Downloaded on demand. Content is only available when the user is online.	WinInet Cache	Files are sent down individually	Content that is not to be provided offline. Examples include help pages and other content that can consume a large amount of disk space.

The Office will notice in this example, that the table describes four file group names which appear in the first column. Additionally, the second column

1 describes when files of the group are to be downloaded. For example, "Required"
2 files get downloaded before any other files in the extension; and "Offline" files
3 start getting downloaded as soon as file in the "Required" group are downloaded.

4 Rowley neither discloses nor suggests any such subject matter.
5 Accordingly, for at least this reason, the Office has failed to establish a *prima facie*
6 case of obviousness and this claim is allowable.

7 The Office then relies on Swank, which teaches storing a hash for a file, to
8 argue that the subject matter of this claim would be obvious. Applicant
9 respectfully disagrees for a couple of different reasons. First, as noted above, the
10 Office has failed to establish a *prima facie* case of obviousness. Second, this
11 claim has been amended to move subject matter previously appearing in the
12 preamble into the body of the claim, i.e. that the data structure is configured to
13 assist in *delivering software extensions via the Internet*. While this change is
14 cosmetic in nature, the effect of the change is to move subject matter into a claim
15 location (i.e. the body of the claim), where the Office is presumed to give it
16 patentable weight. That said, Swank has nothing whatsoever to do with delivering
17 software extensions via the Internet. Rather, Swank is directed to minimizing
18 communications between a host computer and a personal computer by transmitting
19 only changed lines in an updated file from a terminal to a host. Swank uses its
20 hash processing to ascertain which text lines have been changed and hence which
21 text lines need to be transmitted. Thus, Swank appears, at a minimum, to
22 constitute non-analogous art. Hence, for at least this additional reason, the Office
23 has failed to establish a *prima facie* case of obviousness.

24 Accordingly, for all of the reasons mentioned above, this claim is
25 allowable.

1 **Claims 22-36** depend from claim 21 and are allowable as depending from
2 an allowable base claim. These claims are also allowable for their own recited
3 features which, in combination with those recited in claim 21, are neither disclosed
4 nor suggested in the references of record, either singly or in combination with one
5 another. In addition, given the allowability of claim 21, the rejections of claims 25
6 and 29-31 over Collins; of claim 26 over Mastrianni; and of claims 33-35 over
7 Staelin is not seen to add anything of significance.

8 **Claim 47** recites a security method for downloading software extensions
9 via the Internet comprising:

- 10 • receiving, via the Internet, a package manifest containing a list of
11 multiple files that comprise a software extension that is to be
12 incorporated into an application program executing on a client, the
13 list containing a hash for one or more of the files comprising the
14 software extension;
- 15 • receiving, via the Internet, the multiple files that are described in the
16 package manifest;
- 17 • creating a hash for one or more of the multiple received files; and
- 18 • comparing the created hash of the one or more files with
19 corresponding file hashes contained in the package manifest to
20 ascertain whether one or more of the received file is secure.

21 In making out the rejection of this claim, the Office argues that Rowley
22 teaches receiving a package manifest and multiple files as recited in this claim.
23 The Office admits that Rowley does not teach that the list contains a hash for one
24 or more of the files comprising the software extension, creating a hash for one or
25 more received files and comparing the created hash with the corresponding file
hashes to ascertain the security of the file.

1 The Office then relies on Swank and argues that it discloses storing a hash
2 for an individual file to be updated, creating an updated hash of a received file,
3 and comparing the hashes to determine the integrity of the file [sic:process], citing
4 to column 3, lines 45-51. Based on this, the Office argues that the subject matter
5 of this claim would be obvious in view of these two references. Applicant
6 respectfully disagrees.

7 Specifically, Swank has nothing whatsoever to do with receiving software
8 extensions via the Internet. Rather, Swank is directed to improving
9 communications by transmitting only changed lines in an updated file from a
10 terminal to a host. See, column 3, lines 24-30. Swank's hash process is very
11 specifically directed to minimizing the amount of data that is sent between a
12 terminal and a host. Specifically, as set forth in column 3, a text file together with
13 its hash is first communicated from a host to a terminal. A non-editable hash file
14 is created at the terminal and contains the host-computed hash value and a
15 terminal-generated hash value for each line of the file. After some editing has
16 occurred to the text file, a hash is re-computed for each line of text and compared
17 line-by-line with the previously-computed has file to ascertain which lines have
18 changed. Once identified, only changed lines are sent to the host.

19 Accordingly, for at least this reason, this claim is allowable.

20 **Claims 48-50** depend from claim 47 and are allowable as depending from
21 an allowable base claim. These claims are also allowable for their own recited
22 features which, in combination with those recited in claim 47, are neither disclosed
23 nor suggested in the references of record, either singly or in combination with one
24 another. In addition, given the allowability of claim 47, the rejection of claim 48
25 over Iannucci is not seen to add anything of significance.

1 **Claim 51** recites an updating method for updating software extensions via
2 the Internet comprising:

- 3 • receiving, via the Internet, a package manifest containing a list of
4 multiple files that comprise a newer version of a software extension
5 that is to be incorporated into an application program executing on a
6 client that contains an older software extension version, the list
7 containing a hash for one or more of the files comprising the newer
8 version of the software extension;
- 9 • comparing one or more hashes that are received with one or more
10 hashes of files from the older version of the software extension;
- 11 • for any hashes of corresponding files from the different versions that
12 are different, downloading a new file from a web server; and
- 13 • for any hashes of corresponding files from the different versions that
14 are the same, copying a file from an old local directory on the client
15 to a new local directory on the client associated with the newer
16 version of the extension.

17 In making out the rejection of this claim, the Office argues that Rowley
18 teaches receiving a package manifest and comparing files of an older version with
19 files of a newer version stored in a manifest, and if corresponding files are
20 different, downloading the new files. The Office admits that Rowley does not
21 teach the use of hashes and relies instead on Swank. Relying on Swank, the
22 Office argues that Swank teaches storing a file hash for a file that is to be updated,
23 creating an updated hash of a received file and comparing the hashes so that when
24 the hash of an old file and a newly received file is the same, the old file is updated
25 and replaced by the new file.

 Applicant respectfully submits that the Office has misinterpreted this
reference. Specifically, according to Swank's system, an original file is
maintained at the host and has an associated hash. When changes are made to the
file on a remote terminal, those changes are communicated to the host. As

1 specifically taught by Swank, the original file at the host is only updated after a
2 hash value for the original entire file has been recomputed by the host and checked
3 so that it matches the entire file hash total previously stored at the terminal. This
4 ensures that the original file *at the host* has not been changed since the terminal
5 hash file was generated. See, column 3, lines 45-50. Thus, Swank teaches only
6 using a hash to determine that an *old file* at the host is still, in fact, the *old file*
7 from which the terminal's hash was computed. Once confirmed, only those
8 changes transmitted by the terminal are made to the file. The terminal does not
9 transmit the entire changed file—in fact, Swank's subject matter is specifically
10 directed to avoiding any such situation. Thus, at best, Swank simply teaches using
11 a hash to ascertain whether the host's old file has been changed since the terminal
12 file's hash was computed so that the host can incorporate only those changes
13 transmitted to the host by the terminal.

14 Recharacterized a bit, Swank's approach can be thought of as taking a hash
15 of an old file and if the hash of the old file is the same as the hash of the old file at
16 the terminal, making the changes sent by the terminal. Applicant's claim recites,
17 *inter alia*, "for any hashes of corresponding files from the different versions that
18 are different, downloading a new file from a web server". Thus, this subject
19 matter is directed to downloading a new file if the hashes are different. It would
20 appear that Swank is not on point for a couple of different reasons. First, as noted
21 above, Swank is not at all directed to updating software extensions as recited in
22 this claim. Rather, Swank appears to be directed to a non-analogous area of art.
23 Second, Swank's process relied upon by the Office is not directed to comparing
24 hashes for newer versions of anything with older versions of anything for the
25 purpose acquiring a newer version. Rather, Swank's process is directed to

1 comparing such hashes and, if different, possibly acquiring the older version (i.e.
2 the old document) so that the text in the old document can be updated.

3 For at least these reasons, the Office has failed to establish a *prima facie*
4 case of obviousness and this claim is allowable.

5 **Claims 52-54** depend from claim 51 and are allowable as depending from
6 an allowable base claim. These claims are also allowable for their own recited
7 features which, in combination with those recited in claim 51, are neither disclosed
8 nor suggested in the references of record, either singly or in combination with one
9 another. In addition, given the allowability of claim 51, the rejection of claims 52
10 and 54 over Iannucci is not seen to add anything of significance.

11
12
13 **Claims Rejected Over the Combination that Includes at least Collins**
14 **and Carpenter**

15 **Claim 64** recites a queue management method comprising:

- 16
- 17 • defining a download queue that controls when files are to be
18 downloaded to a client, the files pertaining to a software extension
19 that is to be incorporated into an application program executing on
20 the client;
 - 21 • ascertaining whether a user action at the client requires one or more
22 files that are not currently being downloaded; and
 - 23 • manipulating the download queue responsive to a user action that
24 requires one or more files that are not currently being downloaded so
25 that the one or more required files are downloaded sooner than they
would otherwise be.

23 In making out the rejection of this claim, the Office argues that Collins
24 teaches a download queue that controls when files are to be downloaded to a
25 client. The Office admits that Collins does not teach ascertaining whether a user

1 action at the client requires one or more files that are not currently being
2 downloaded, and manipulating the download queue responsive to a user action
3 that requires one or more files that are not currently being downloaded so that the
4 one or more required files are downloaded sooner than they would otherwise be.

5 The Office then relies on Carpenter and argues that Carpenter teaches
6 queue manipulation based on user input, citing to column 7, lines 21-25. Based on
7 this, the Office argues that the subject matter of this claim would be obvious in
8 view of Collins and Carpenter reasoning that such would allow a user to prioritize
9 files that need to be downloaded while the queue is in progress.

10 Applicant respectfully disagrees and submits that the Office has taken
11 Carpenter out of context. Specifically, Carpenter's system and method are
12 designed to operate for transmitting messages from a memory constrained data
13 processor to a host computer. See, e.g. column 4, lines 47-49. That is, in
14 Carpenter, it is the client device that is memory constrained and transmission
15 occurs *from* the client *to* the host. Thus, in Carpenter the queue management
16 referred to by the Office (column 7, lines 21-25) takes place with respect to
17 transmissions made from the client. Put another way, the queue management does
18 not take place with respect to the client downloading anything. This is particularly
19 germane when the claim language of this claim is examined.

20 Specifically, the claim recites that the download queue is defined and
21 controls when files are to be *downloaded* to a client. The remainder of the claim
22 (the recited acts of ascertaining and manipulating) are directed to ascertaining
23 whether a user action requires one or more files that are not currently being
24 downloaded and if so, manipulating the download queue so that one or more
25 required files are downloaded sooner than they would otherwise be. Hence,

1 Carpenter fails to teach queue management as recited in this claim. Accordingly,
2 for at least this reason, the Office has failed to establish a *prima facie* case of
3 obviousness and this claim is allowable.

4 Additionally, the Office has failed to establish a *prima facie* case of
5 obviousness for the following reason. Carpenter has nothing whatsoever to do
6 with downloading files that pertain to a software extension that is to be
7 incorporated into an application program executing on a client. Rather, as pointed
8 out above, Carpenter is directed to systems and methods that operate to transmit
9 messages from a memory constrained data processor in a client device to a host
10 computer. Carpenter teaches delaying generation and encoding of such messages
11 when the client is not connected to the host for the purpose of saving memory
12 resources on the client. See, e.g. column 2, lines 47-67. When the client has re-
13 established a connection with the host, the messages can then be generated and
14 encoded. Accordingly, Carpenter's teachings are not in the same field of endeavor
15 as the subject matter of this claim—downloading files that pertain to a software
16 extension. Additionally, the problem that Carpenter addresses—that of conserving
17 resources of a memory-constrained device—is not even germane to the problem
18 that is associated with the subject matter of this claim—that of providing files of a
19 software extension to a client responsive to a user action indicating that such file
20 are required.

21 Accordingly, for at least this additional reason, the Office has failed to
22 establish a *prima facie* case of obviousness and this claim is allowable.

23 **Claims 65-68** depend from claim 64 and are allowable as depending from
24 an allowable base claim. These claims are also allowable for their own recited
25 features which, in combination with those recited in claim 64, are neither disclosed

1 nor suggested in the references of record, either singly or in combination with one
2 another. In addition, given the allowability of claim 64, the rejection of claim 66
3 over the combination with Van Huber is not seen to add anything of significance.

4
5 **Claims Rejected Over the Combination of at least Halpern and Taylor**

6 **Claim 69** has been amended and recites a method of creating software
7 packages for delivery via the Internet comprising [added language appears in bold
8 italics]:

- 9
- 10 • identifying end user features;
 - 11 • identifying shared dependencies between the end user features;
 - 12 • creating individual software packages for the end user features;
 - 13 • creating individual software packages for the shared dependencies;
 - 14 and
 - 15 • hosting the software packages on a web server;
 - 16 • *wherein both of said acts of identifying and both of said acts of*
17 *creating provide software extensions that are created in a uniform*
18 *manner independent of end user input.*

19 In making out the rejection of this claim, the Office argues that Halpern
20 teaches identifying end user features, creating individual software packages and
21 hosting the software packages on a web server. The Office then relies on Taylor
22 and argues that it teaches identifying shared dependencies between end user
23 features and creating individual software packages for the shared dependencies.
24 Based on the teachings of these two references, the Office argues that the subject
25 matter of this claim is obvious. Applicant respectfully disagrees. Nonetheless,
Applicant has made a clarifying amendment to this claim.

1 Specifically, this claim has been amended to clarify that both of the acts of
2 identifying and both of the acts of creating provide software extensions that are
3 created in a *uniform manner independent of end user input*. Support for this
4 subject matter can be found in the Specification starting on page 26, line 8 through
5 page 27, line 10. Specifically, the subject matter of this claim is directed to
6 embodiments that enable packages to be created in a uniform manner in order to
7 provide an organized delivery process. As noted in the Specification, one of the
8 features of the described embodiment pertains to its extensibility. More
9 specifically, software packages can be created by third party developers for
10 extending so-called software platforms. See, e.g. Specification, page 49, lines 10-
11 14 (“The embodiments described above provide a platform solution that provides
12 for customization and extensibility through a consistent and logical extensibility
13 mechanism and object model that can be easily understood by third party
14 developers. Internet-based downloads can be accomplished without a great deal of
15 user intervention and without manipulating any user persisted settings.”).

16 Halpern, on the other hand, is very specifically directed to building
17 installation packages that necessarily *require* user input. See, e.g. Abstract (“An
18 installation package delivered to a requesting end user is custom configured at a
19 remote server...in response to the user’s inputs); column 5, lines 49-51 (“In
20 response to the user’s selections, the options manager 104 delivers an installation
21 and/or options specification to an installer set generator 109.”); and column 7,
22 lines 22-23 (“Step 3: The user selects desired software components and options
23 from a list of components and options.”). Accordingly, Halpern teaches directly
24 away from the subject matter of this claim as amended. As such, the Office’s
25 reliance on Taylor adds nothing of significance. Accordingly, for at least this

1 reason, the Office has failed to establish a *prima facie* case of obviousness and this
2 claim is allowable.

3 **Claim 70** depends from claim 69 and is allowable as depending from an
4 allowable base claim. This claim is also allowable for its own recited features
5 which, in combination with those recited in claim 69, are neither disclosed nor
6 suggested in the references of record, either singly or in combination with one
7 another. In addition, given the allowability of claim 69, the rejection of this claim
8 over the combination with Rowley is not seen to add anything of significance.

9
10 **Claims Rejected Over the Combination of at least Bailey and Kolawa**

11 **Claim 86** recites a method of providing software extensions via the Internet
12 comprising:

- 13
- 14 • assigning one or more files to one or more scenarios to provide
multiple different scenarios that describe ways that a user interacts
15 with a software application program;
 - 16 • assigning a priority to each of the scenarios;
 - 17 • sorting multiple files in accordance with their scenario priority or
priorities; and
 - 18 • downloading sorted files in an order defined by said sorting.

19 In making out the rejection of this claim, the Office argues that Bailey
20 teaches running a number of test scenarios on a file which represents a program
21 (citing to column 1, lines 22-28 and lines 46-50), and assigning a priority to tests
22 by ordering them based on coverage. The Office then goes on to argue that Bailey
23 does not explicitly teach that the scenarios describe ways in which a user interacts
24 with an application. The Office then relies on Kolawa and argues that it teaches a
25 test suite which is a collection of tests that test the complete functionality of a

1 software program. Based on this, the Office surmises that Kolawa *must* describe
2 ways that a user can use an application.

3 Continuing, the Office admits that neither Bailey nor Kolawa teach sorting
4 multiple files in accordance with their scenario priority or downloading sorted
5 files in an order defined by the sorting. The Office then relies on Collins and
6 argues that it teaches such subject matter in column 5, lines 35-37. Based on the
7 teachings of these three references, the Office argues that the subject matter of this
8 claim is obvious. Applicant respectfully disagrees and submits that the Office has
9 not established a *prima facie* case of obviousness for a number of different
10 reasons.

11 First, Bailey discloses a *software testing system* that measures execution of
12 machine code instructions in an executing program. The first two sections of
13 Bailey cited by the Office simply describe the importance of comprehensively
14 testing software and a particular type of tool that has been used to test software
15 respectively. The third section of Bailey that is cited by the Office describes part
16 of its technique for measuring the execution of machine code instructions in a
17 computer program. It appears, from even a cursory reading of Bailey, that Bailey
18 is not remotely associated with or concerned with methods of providing software
19 extensions via the Internet. Thus, to this extent, Bailey is not even germane to the
20 subject matter of this claim.

21 The reference to Kolawa is no better. Kolawa is also directed to software
22 testing and discloses a system and method that generates a test suite for a
23 computer program that comprises program statements and variables including at
24 least one input statement having one or more input variables that are grouped into
25 code blocks and stored in a program database. The program statements

1 corresponding to a candidate code block are read from the program database and
2 each input variable is represented in symbolic form as a symbolic memory value.
3 The processing that Kolawa further describes makes it abundantly clear that
4 Kolawa is neither directed to nor in any way concerned with methods of providing
5 software extensions via the Internet.

6 Hence, based on the substantial differences between the subject matter of
7 the present claim and these two references, the Office has failed to establish a
8 *prima facie* case of obviousness. Accordingly, for at least this reason, this claim is
9 allowable. In addition, based on the failure of the Office to establish a *prima facie*
10 case of obviousness, the Office's reliance on Collins is not seen to add anything of
11 significance. Accordingly, this claim is allowable.

12 **Claims 87-90** depend from claim 86 and are allowable as depending from
13 an allowable base claim. These claims are also allowable for their own recited
14 features which, in combination with those recited in claim 86, are neither disclosed
15 nor suggested in the references of record, either singly or in combination with one
16 another.

17 **Claim 91** recites a method of ordering files for download to a client
18 comprising:

- 19
- 20 • sorting multiple files by one or more file groups;
 - 21 • sorting the multiple files based on scenario priority of one or more
22 scenarios into which each file can be placed;
 - 23 • sorting the multiple files by file usage order within one or more
24 scenarios.

25 In making out the rejection of this claim, the Office argues that Rowley
teaches sorting multiple files into multiple directories, but not sorting multiple

1 files based on scenario priority. The Office then relies on Collins and argues that
2 it teaches sorting data packages on a queue for downloading and hence prioritizing
3 certain packages. The Office then admits that neither Rowley nor Collins teach
4 sorting multiple files based on file usage order. The Office then relies on Bailey
5 and argues that it teaches such subject matter, citing to column 1, lines 22-28.
6 Based on the teachings of these three references, the Office argues that the subject
7 matter of this claim is obvious. Applicant respectfully disagrees.

8 Specifically, Collins simply discloses that once a software package is
9 scheduled for transmission via the internetwork to a target computer, group or
10 Profile, an indication is stored in the Outbound Package Queue (13). See, column
11 5, lines 34-37. Applicant respectfully submits that this in no way describes or
12 suggests “sorting the multiple files based on *scenario priority* of one or more
13 *scenarios into which each file can be placed*.”

14 As but one example of subject matter that is covered by this claim, the
15 Office is respectfully referred to the Specification, page 31, line 1 through page
16 33, line 13. As should be readily apparent after this example is considered,
17 Collins in no way discloses or suggests “sorting the multiple files based on
18 *scenario priority* of one or more *scenarios into which each file can be placed*.”

19 Accordingly, for at least this reason, the Office has failed to establish a
20 *prima facie* case of obviousness and this claim is allowable.

21 Given the Office’s failure to establish a *prima facie* case of obviousness,
22 the Office’s reliance on Bailey is not seen to add anything of significance. This is
23 even more particularly the case when one considers that Bailey has nothing
24 whatsoever to do with methods of ordering files for download to a client. Hence,
25 for at least this additional reason, this claim is allowable.

1 **Claims 92-96** depend from claim 91 and are allowable as depending from
2 an allowable base claim. These claims are also allowable for their own recited
3 features which, in combination with those recited in claim 91, are neither disclosed
4 nor suggested in the references of record, either singly or in combination with one
5 another.

6
7 **Conclusion**

8 Applicant respectfully submits that all of the claims are in condition for
9 allowance and Applicant respectfully requests a Notice of Allowability be issued
10 forthwith. If the next anticipated action is to be anything other than issuance of a
11 Notice of Allowability, Applicant respectfully requests a telephone call for the
12 purpose of scheduling an interview.
13
14

15 Respectfully Submitted,

16
17 Dated: 2/5/04

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